Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-6. (Canceled)

7. (Currently Amended) An artificial vision system comprising:

an image pickup device which is to be disposed outside a body of a patient and captures an image in front of the patient; and

a plurality of separate electrodes which are to be implanted in an eye of the patient so as to individually stick in an optic papilla of the ~~eye;~~ patient's eye, each electrode having a predetermined length so that its end is placed in an optic nerve of the eye when the electrode is stuck in the optic papilla;

wherein the electrodes ~~outputting~~ after being stuck in the optic papilla outputs an electric stimulation signal based on a signal for stimulation pulse which is generated based on the image captured by the image pickup device to stimulate ~~an optic~~ the optic nerve of the eye, thereby enabling the patient to visually recognize the image captured by the image pickup device.

8. (Canceled)

9. (Currently Amended) The artificial vision system according to claim 7 further comprising:

an external device which is to be disposed outside the body and performs predetermined optimizing ~~processing~~ processing of the image captured by the image pickup device to generate the signal for stimulation pulse; and

an internal device which is to be implanted in the body and converts the signal for stimulation pulse into the electrical stimulation signal to output the electrical stimulation signal from the electrodes.

10. (Previously Presented) The artificial vision system according to claim 9, wherein

the external device includes the image pickup device, an image processing device which performs the predetermined optimizing processing to generate the signal for stimulation pulse, and a power supply.

11. (Currently Amended) The artificial vision system according to claim 10, wherein

the image processing device adjusts parameters of the electrical stimulation signal to be outputted from the electrodes.

12. (Currently Amended) The artificial vision system according to claim 10, ~~wherein,~~ further comprising:

a primary coil,

a secondary coil,

wherein the signal and power are transmitted from the external device to the internal device by electromagnetic induction occurring ~~between a~~ between the primary coil which is to be attached to a skin of the body and ~~a secondary~~ the secondary coil which is to be implanted in the body.